FIG. 1

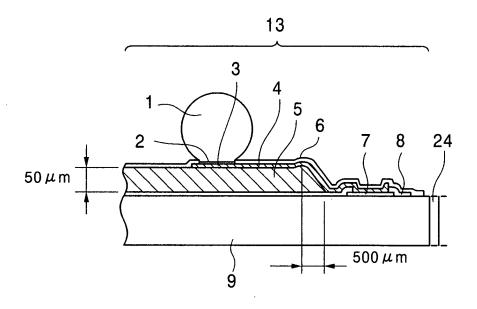


FIG. 2

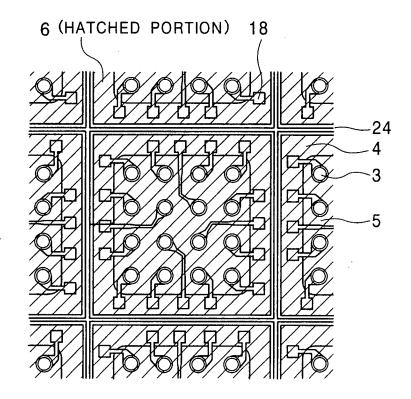


FIG. 3

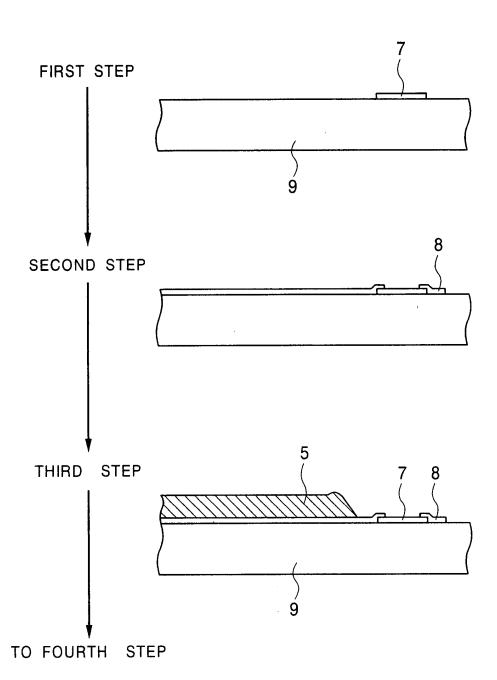


FIG. 4

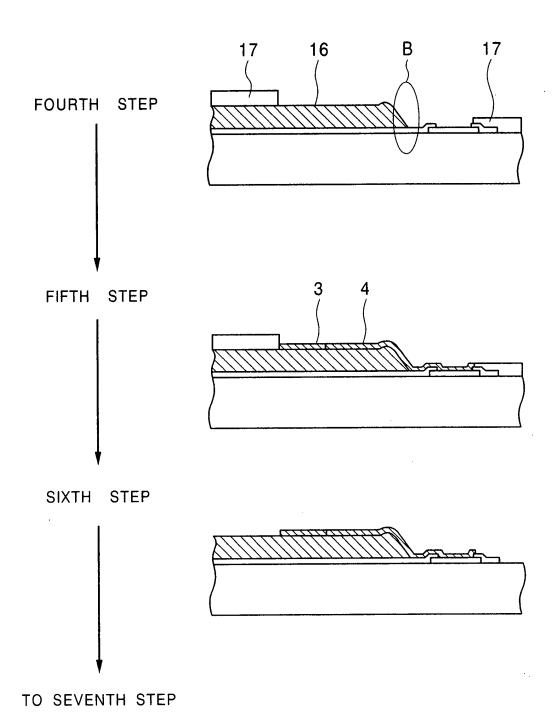


FIG. 5

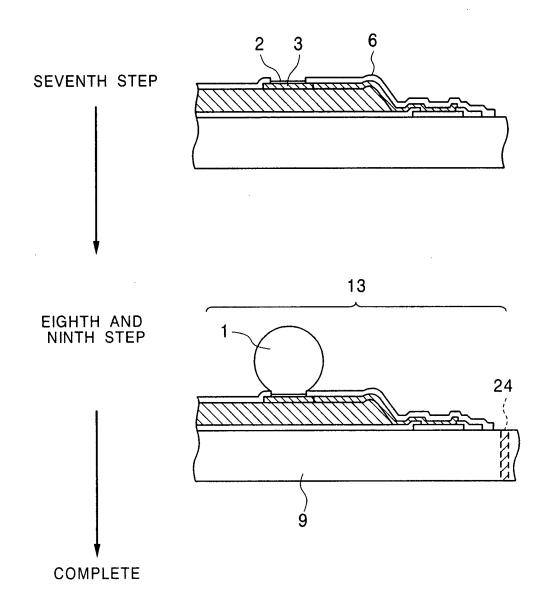


FIG. 6

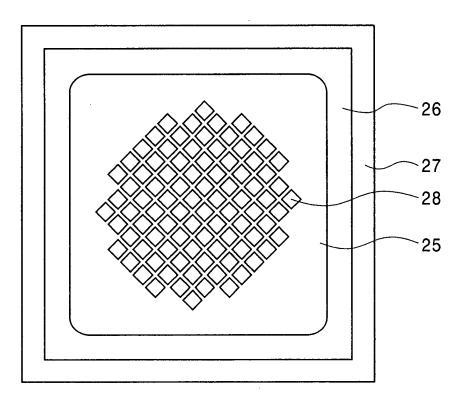


FIG. 7

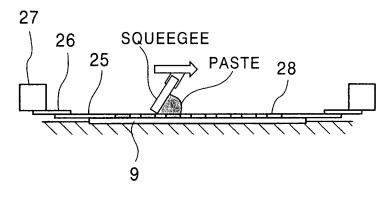


FIG. 8

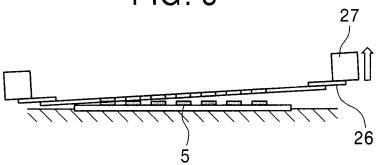


FIG. 9

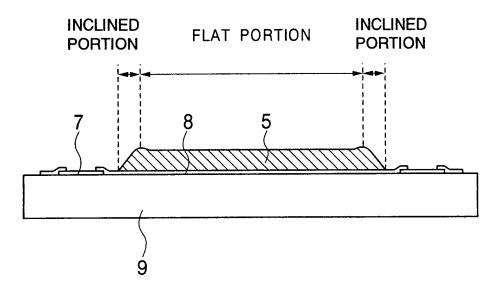


FIG. 10

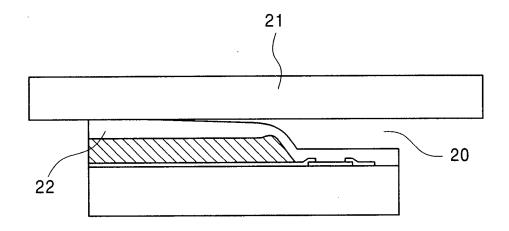


FIG. 11

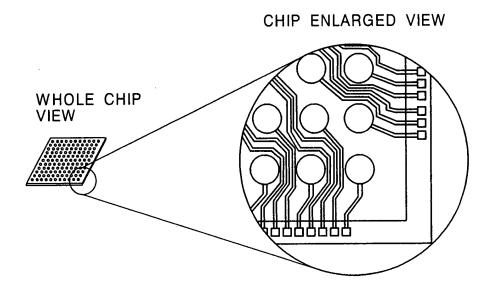


FIG. 12

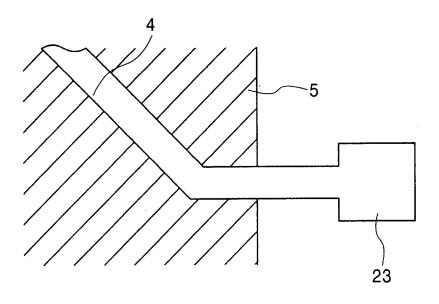


FIG. 13

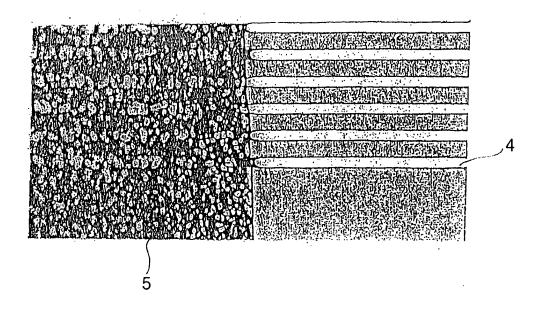


FIG. 14

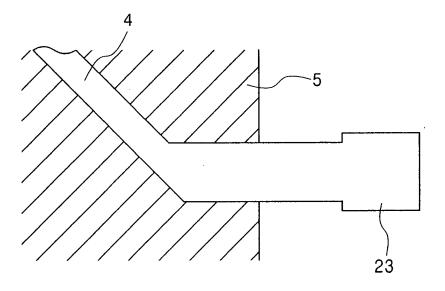


FIG. 15

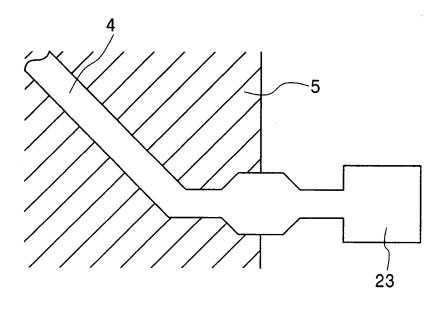


FIG. 16

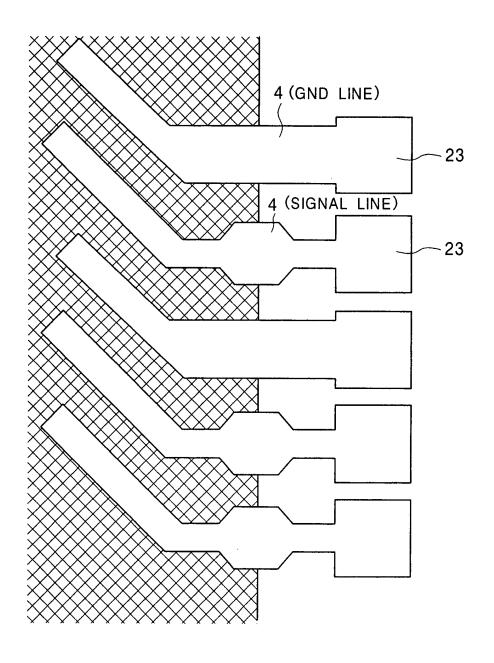


FIG. 17

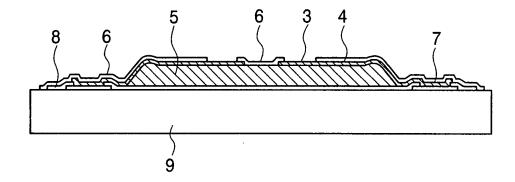


FIG. 18

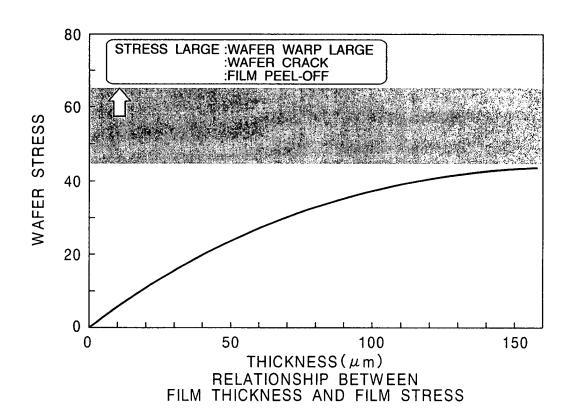


FIG. 19

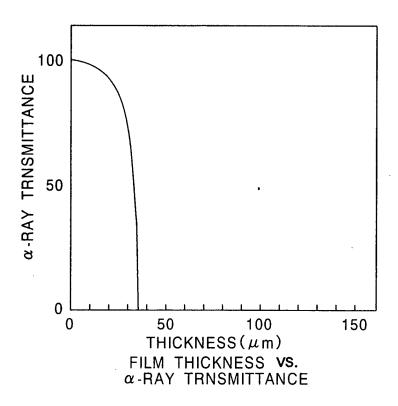
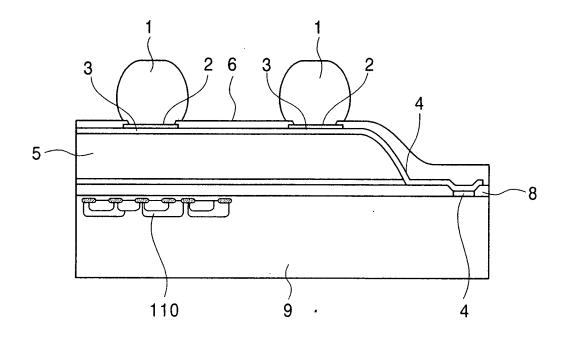


FIG. 20



;

-

FIG. 21

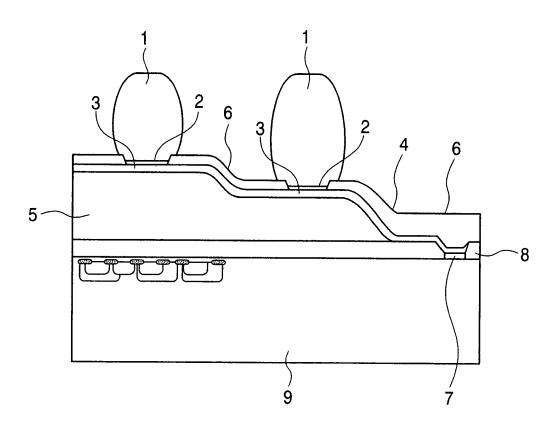
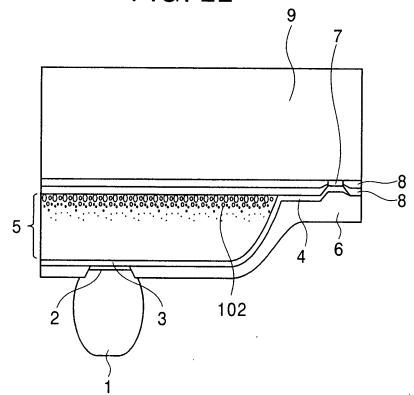


FIG. 22



•

.

_

FIG. 23

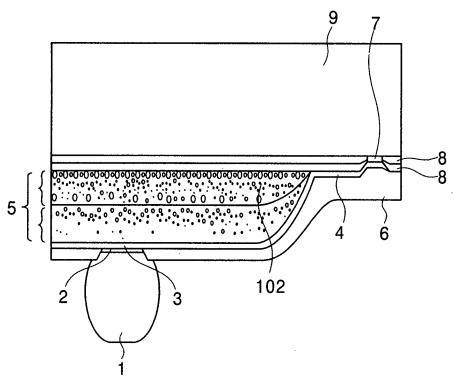


FIG. 24

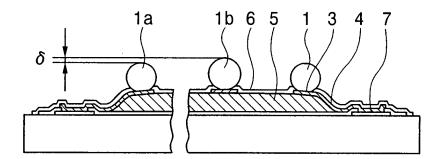


FIG. 25

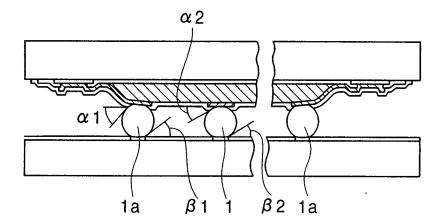


FIG. 26a

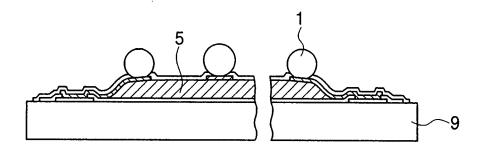


FIG. 26b

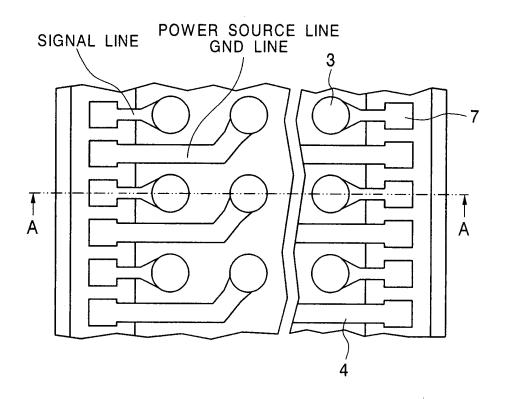


FIG. 27

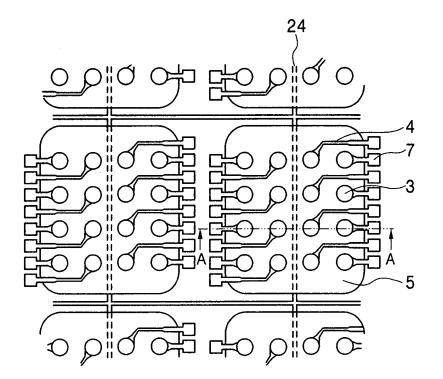


FIG. 28

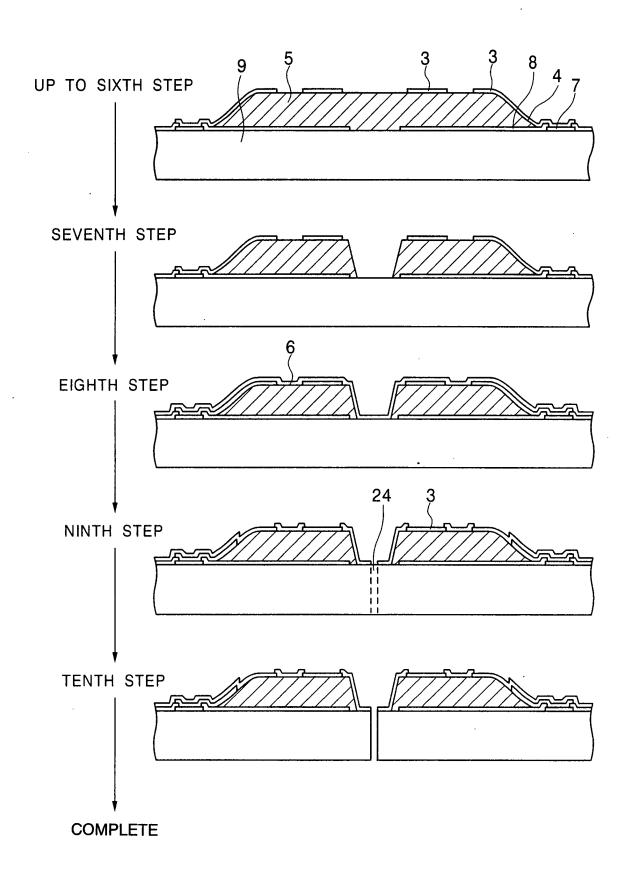


FIG. 29

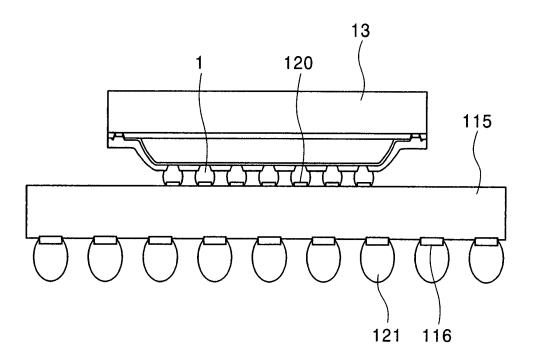


FIG. 30

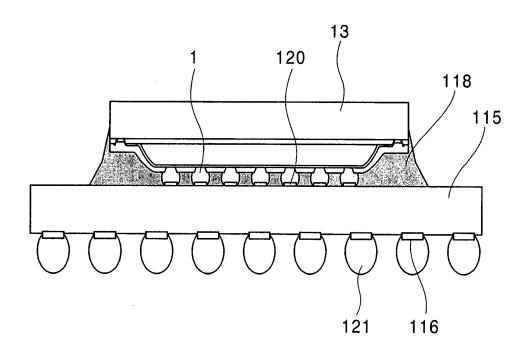


FIG. 31

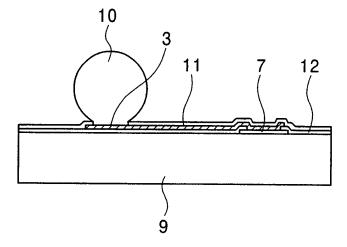


FIG. 32

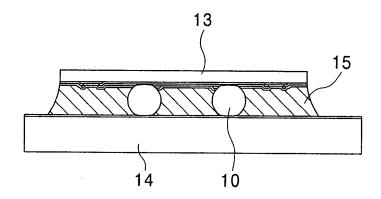


FIG. 33a

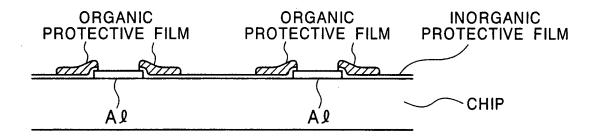


FIG. 33b

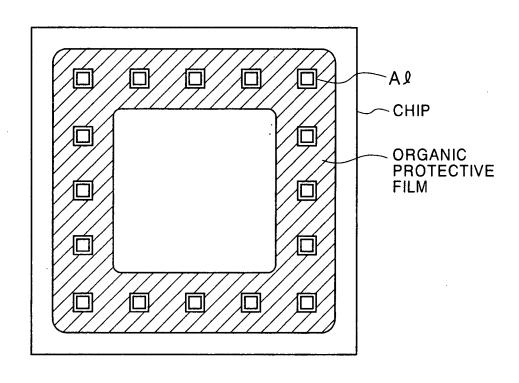


FIG. 34a

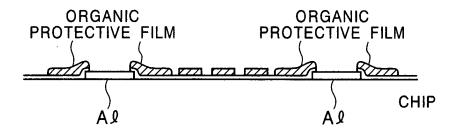


FIG. 34b

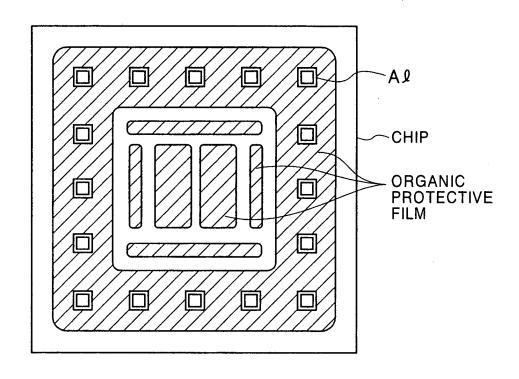


FIG. 35

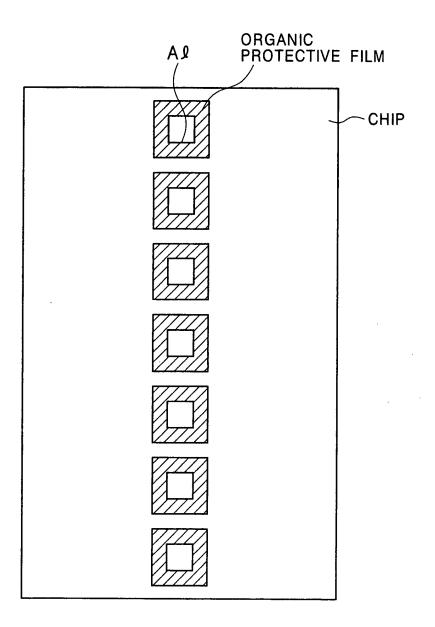


FIG. 36

STRESS RELAXATION LAYER

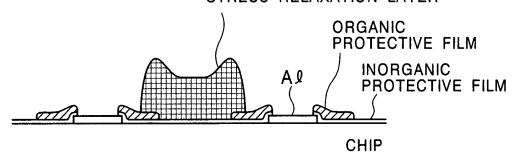


FIG. 37

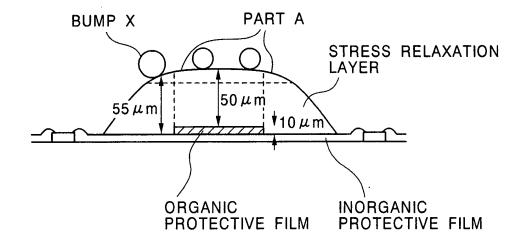


FIG. 38

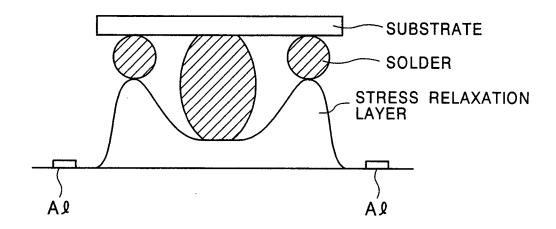


FIG. 39a

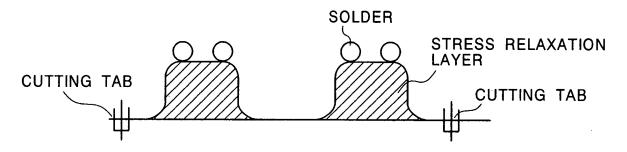


FIG. 39b

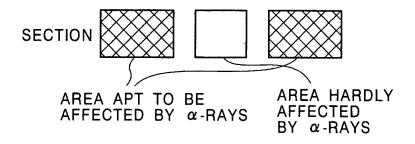


FIG. 39c

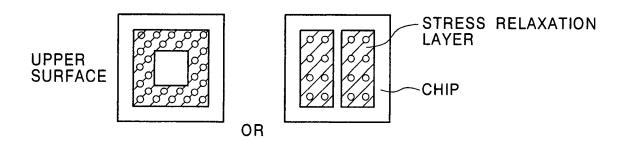


FIG. 40

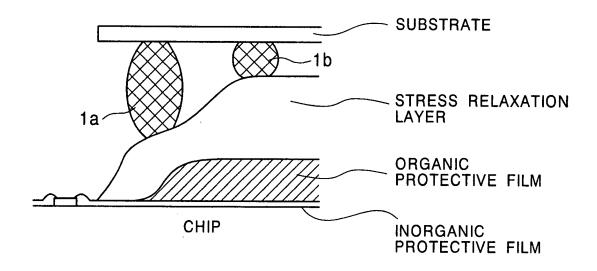
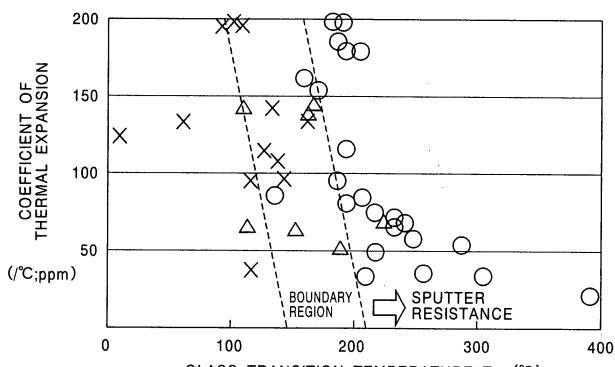


FIG. 41



GLASS TRANSITION TEMPERATURE Tg (°C)

PHYSICAL VALUES AND SPUTTER RESISTANCE OF STRESS RELAXATION LAYER CANDIDATE MATERIAL (X:OCCURRENCE OF CRACKS, △:OCCURRENCE OF WRINKLE, ○:NO ABNORMALITY)